

Engineering Interpretations

Building Site Development

Soil properties influence development of building sites, including the selection of the site, the design of the structure, construction, post construction performance, and maintenance. Soil limitation ratings of slight, moderate, and severe are given for shallow excavations, dwellings with and without basements, small commercial buildings, local roads and streets, and lawns, landscaping, and golf fairways.

Shallow Excavations

Shallow excavations are trenches or holes dug in the soil to a maximum depth of 5 or 6 feet. They are used for pipelines, sewer lines, telephone and power transmission lines, basements, open ditches, and cemeteries. The ratings are based on the soil properties that influence ease of digging and resistance to sloughing.

Dwellings With or Without Basements

These are single-family houses of three stories or less. The foundation is assumed to be spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or the depth of maximum frost penetration, whichever is deeper, for houses without basements, or at a depth of 7 feet if a basement is constructed. The ratings are based on properties affecting soil strength and settlement under a load, and those that affect excavation and construction costs.

Small Commercial Buildings

Limitation ratings are given for the undisturbed soil on which small commercial buildings of less than three stories without basements are built. The foundation is assumed to be placed on spread footings of reinforced concrete at a depth of 2 feet or the depth of maximum frost penetration, whichever is deeper.

Local Roads and Streets

Limitation ratings are given for the use of soils for construction of improved local roads and streets that have all-weather surfacing, commonly of asphalt, gravel with binder in it, or concrete, and that are expected to carry automobile traffic all year. These roads and streets are graded to shed water, and conventional drainage measures are provided. With the probable exception of the hard surface, roads and streets are built mainly from the soil at hand.

Lawns, Landscaping, and Golf Fairways

The soils are rated for their use in establishing and maintaining turf for lawns and golf fairways and ornamental trees and shrubs for residential type landscaping. The ratings are based on the use of soil material at the location with some land smoothing. Irrigation may or may not be needed and is not a criterion in rating. Traps, trees, roughs, and greens are not considered as part of the golf fairway. The properties considered are those listed that affect plant growth and trafficability after vegetation is established.

This subsection includes:

- **(a) Building Site Development**

Barry County, Missouri: Detailed Soil Map Legend

Building Site Development

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|---|------------------|---|------------------|---|------------------|--|--------------------------|--|--------------------------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 11B: Pembroke----- | Not limited | | Not limited | | Not limited | | Very limited ~low strength (very limited) | 1.00 | Not limited | |
| 15C: Scholten----- | Moderately limited ~wetness (moderately limited) | 0.59 | Very limited ~wetness (very limited) | 1.00 | Limited ~slope (limited) ~wetness (slightly limited) | 0.68 0.28 | Slightly limited ~wetness (slightly limited) | 0.28 | Limited ~small stones (limited) ~droughty (moderately limited) ~wetness (slightly limited) | 0.64 0.50 0.28 |
| 16B: Crelton----- | Moderately limited ~wetness (moderately limited) ~shrink-swell (moderately limited) | 0.51 0.45 | Very limited ~wetness (very limited) ~shrink-swell (moderately limited) | 1.00 0.45 | Moderately limited ~shrink-swell (moderately limited) ~wetness (slightly limited) | 0.45 0.13 | Very limited ~low strength (very limited) ~shrink-swell (moderately limited) ~wetness (slightly limited) | 1.00 0.45 0.13 | Slightly limited ~wetness (slightly limited) | 0.13 |
| 18B: Captina----- | Moderately limited ~wetness (moderately limited) | 0.45 | Very limited ~wetness (very limited) | 1.00 | Not limited | | Very limited ~low strength (very limited) | 1.00 | Not limited | |
| 19B: Needley----- | Moderately limited ~wetness (moderately limited) | 0.51 | Very limited ~wetness (very limited) | 1.00 | Slightly limited ~wetness (slightly limited) | 0.13 | Very limited ~low strength (very limited) ~wetness (slightly limited) | 1.00 0.13 | Slightly limited ~wetness (slightly limited) ~droughty (slightly limited) | 0.13 0.00 |

Barry County, Missouri: Detailed Soil Map Legend

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|---|-------|---|-------|--|--------------|--|--------------|---|----------------------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 20B: Branson----- | Moderately limited ~shrink-swell (moderately limited) | 0.45 | Slightly limited ~shrink-swell (slightly limited) | 0.20 | Moderately limited ~shrink-swell (moderately limited) | 0.45 | Very limited ~low strength (very limited) ~shrink-swell (moderately limited) | 1.00 0.45 | Not limited | |
| 21B: Claiborne----- | Not limited | | Not limited | | Slightly limited ~slope (slightly limited) | 0.15 | Not limited | | Not limited | |
| 22B: Britwater----- | Not limited | | Not limited | | Slightly limited ~slope (slightly limited) | 0.15 | Not limited | | Slightly limited ~small stones (slightly limited) | 0.06 |
| 23B: Lily----- | Limited ~depth to bedrock (limited) | 0.66 | Very limited ~hard bedrock <40" (very limited) | 1.00 | Limited ~depth to bedrock (limited) ~slope (slightly limited) | 0.66 0.15 | Limited ~depth to bedrock (limited) | 0.66 | Limited ~depth to bedrock (limited) ~too acid (moderately limited) ~droughty (slightly limited) | 0.66 0.54 0.04 |
| Ramsey----- | Very limited ~hard bedrock <20" (very limited) | 1.00 | Very limited ~hard bedrock <40" (very limited) | 1.00 | Very limited ~hard bedrock <20" (very limited) ~slope (slightly limited) | 1.00 0.15 | Very limited ~hard bedrock <20" (very limited) | 1.00 | Very limited ~shallow to bedrock (very limited) ~droughty (very limited) ~too acid (slightly limited) | 1.00 1.00 0.30 |

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|---|------------------|--|--------------------------|--|------------------|--|--------------------------|---|------------------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 24A: | | | | | | | | | | |
| Parsons----- | Very limited ~shrink-swell (very limited) ~wetness (very limited) | 1.00 1.00 | Very limited ~wetness (very limited) ~shrink-swell (very limited) | 1.00 1.00 | Very limited ~shrink-swell (very limited) ~wetness (limited) | 1.00 0.99 | Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (limited) | 1.00 1.00 0.99 | Limited ~wetness (limited) | 0.99 |
| Barden----- | Moderately limited ~shrink-swell (moderately limited) ~wetness (moderately limited) | 0.45 0.45 | Very limited ~wetness (very limited) ~shrink-swell (limited) | 1.00 0.67 | Moderately limited ~shrink-swell (moderately limited) | 0.45 | Very limited ~low strength (very limited) ~shrink-swell (moderately limited) | 1.00 0.45 | Not limited | |
| Carytown----- | Very limited ~wetness (very limited) ~shrink-swell (very limited) | 1.00 1.00 | Very limited ~wetness (very limited) ~shrink-swell (very limited) | 1.00 1.00 | Very limited ~wetness (very limited) ~shrink-swell (very limited) | 1.00 1.00 | Very limited ~low strength (very limited) ~wetness (very limited) ~shrink-swell (very limited) | 1.00 1.00 1.00 | Very limited ~excess sodium (very limited) ~wetness (very limited) | 1.00 1.00 |
| 26B2: | | | | | | | | | | |
| Yelton----- | Moderately limited ~wetness (moderately limited) | 0.51 | Very limited ~wetness (very limited) | 1.00 | Slightly limited ~slope (slightly limited) ~wetness (slightly limited) | 0.15 0.13 | Slightly limited ~wetness (slightly limited) | 0.13 | Slightly limited ~wetness (slightly limited) ~droughty (slightly limited) | 0.13 0.04 |
| 27E: | | | | | | | | | | |
| Beemont----- | Very limited ~shrink-swell (very limited) ~slope (limited) | 1.00 0.83 | Very limited ~shrink-swell (very limited) ~slope (limited) ~depth to bedrock (limited) | 1.00 0.83 0.64 | Very limited ~shrink-swell (very limited) ~slope (very limited) | 1.00 1.00 | Very limited ~low strength (very limited) ~shrink-swell (very limited) ~slope (limited) | 1.00 1.00 0.84 | Limited ~large stones (limited) ~slope (limited) | 0.99 0.84 |

Barry County, Missouri: Detailed Soil Map Legend

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|---|------------------|---|------------------------------|---|------------------|---|------------------|---|------------------------------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 28C: Beemont----- | Very limited ~shrink-swell (very limited) ~slope (slightly limited) | 1.00 0.15 | Very limited ~shrink-swell (very limited) ~depth to bedrock (limited) ~slope (slightly limited) | 1.00 0.79 0.15 | Very limited ~shrink-swell (very limited) ~slope (limited) | 1.00 0.83 | Very limited ~low strength (very limited) ~shrink-swell (very limited) | 1.00 1.00 | Not limited | |
| 29C: Portia----- | Not limited | | Not limited | | Limited ~slope (limited) | 0.68 | Not limited | | Not limited | |
| 30C: Keeno----- | Moderately limited ~wetness (moderately limited) | 0.59 | Very limited ~wetness (very limited) | 1.00 | Limited ~slope (limited) ~wetness (slightly limited) | 0.68 0.28 | Slightly limited ~wetness (slightly limited) | 0.28 | Very limited ~droughty (very limited) ~small stones (very limited) ~wetness (slightly limited) | 1.00 1.00 0.28 |
| 31C: Waben----- | Not limited | | Not limited | | Limited ~slope (limited) | 0.68 | Not limited | | Very limited ~small stones (limited) | 1.00 |
| 35D: Hailey----- | Moderately limited ~slope (moderately limited) ~large stones (slightly limited) | 0.60 0.02 | Moderately limited ~slope (moderately limited) ~large stones (slightly limited) | 0.60 0.02 | Very limited ~slope (very limited) ~large stones (slightly limited) | 1.00 0.02 | Slightly limited ~slope (slightly limited) ~large stones (slightly limited) | 0.16 0.02 | Very limited ~small stones (very limited) ~droughty (moderately limited) ~large stones (moderately limited) | 1.00 0.54 0.30 |

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|---|------------------|---|------------------|---|------------------|---|------------------|---|------------------------------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 35D: (cont) | | | | | | | | | | |
| Nixa----- | Limited ~wetness (limited) ~slope (slightly limited) | 0.79 0.15 | Very limited ~wetness (very limited) ~slope (slightly limited) | 1.00 0.15 | Limited ~slope (limited) ~wetness (moderately limited) | 0.83 0.45 | Moderately limited ~wetness (moderately limited) | 0.45 | Very limited ~small stones (very limited) ~droughty (limited) ~wetness (moderately limited) | 1.00 0.82 0.45 |
| 36D: | | | | | | | | | | |
| Nixa----- | Limited ~wetness (limited) ~slope (slightly limited) | 0.79 0.15 | Very limited ~wetness (very limited) ~slope (slightly limited) | 1.00 0.15 | Limited ~slope (limited) ~wetness (moderately limited) | 0.83 0.45 | Moderately limited ~wetness (moderately limited) | 0.45 | Very limited ~small stones (very limited) ~droughty (limited) ~wetness (moderately limited) | 1.00 0.98 0.45 |
| Clarksville---- | Limited ~slope (limited) | 0.76 | Limited ~slope (limited) ~shrink-swell (slightly limited) | 0.76 0.22 | Very limited ~slope (very limited) | 1.00 | Limited ~slope (limited) | 0.63 | Very limited ~small stones (very limited) ~slope (limited) ~too acid (moderately limited) | 1.00 0.63 0.42 |
| 40D: | | | | | | | | | | |
| Noark----- | Moderately limited ~slope (moderately limited) ~shrink-swell (moderately limited) | 0.60 0.45 | Moderately limited ~slope (moderately limited) ~shrink-swell (moderately limited) | 0.60 0.39 | Very limited ~slope (very limited) ~shrink-swell (moderately limited) | 1.00 0.45 | Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited) | 0.45 0.16 | Very limited ~small stones (very limited) ~slope (slightly limited) | 1.00 0.16 |

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|--|----------------------|---|--------------|--|----------------------|--|--------------|---|----------------------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 40D: (cont) | | | | | | | | | | |
| Clarksville---- | Moderately limited ~slope (moderately limited) | 0.60 | Moderately limited ~slope (moderately limited) ~shrink-swell (slightly limited) | 0.60 0.22 | Very limited ~slope (very limited) | 1.00 | Slightly limited ~slope (slightly limited) | 0.16 | Very limited ~small stones (very limited) ~droughty (limited) ~too acid (moderately limited) | 1.00 0.65 0.42 |
| 41E: | | | | | | | | | | |
| Noark----- | Limited ~slope (limited) | 0.99 | Limited ~slope (limited) ~shrink-swell (slightly limited) | 0.99 0.18 | Very limited ~slope (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~small stones (very limited) ~slope (very limited) | 1.00 1.00 |
| 44G: | | | | | | | | | | |
| Hailey----- | Very limited ~slope (very limited) ~large stones (slightly limited) | 1.00 0.01 | Very limited ~slope (very limited) ~large stones (slightly limited) | 1.00 0.01 | Very limited ~slope (very limited) ~large stones (slightly limited) | 1.00 0.01 | Very limited ~slope (very limited) ~large stones (slightly limited) | 1.00 0.01 | Very limited ~slope (very limited) ~small stones (very limited) ~droughty (moderately limited) | 1.00 1.00 0.39 |
| Rock outcrop--- | Not rated | | Not rated | | Not rated | | Not rated | | Not rated | |
| Moko----- | Very limited ~hard bedrock <20" (very limited) ~slope (very limited) ~large stones (limited) | 1.00 1.00 0.87 | Not Rated Not Rated ~hard bedrock <40" (very limited) ~slope (very limited) | | Very limited ~hard bedrock <20" (very limited) ~slope (very limited) ~large stones (limited) | 1.00 1.00 0.87 | Not Rated Not Rated ~hard bedrock <20" (very limited) ~slope (very limited) | | Very limited ~large stones >30% (very limited) ~slope (very limited) ~shallow to bedrock (very limited) | 1.00 1.00 1.00 |

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|--|----------------------|--|----------------------|--|----------------------|--|----------------------|---|----------------------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 45F: Clarksville---- | Very limited ~slope (very limited) | 1.00 | Very limited ~slope (very limited) ~shrink-swell (slightly limited) | 1.00 0.22 | Very limited ~slope (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~slope (very limited) ~small stones (very limited) ~too acid (moderately limited) | 1.00 1.00 0.42 |
| 46G: Clarksville---- | Very limited ~slope (very limited) | 1.00 | Very limited ~slope (very limited) ~shrink-swell (slightly limited) | 1.00 0.22 | Very limited ~slope (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~slope (very limited) ~small stones (very limited) ~too acid (moderately limited) | 1.00 1.00 0.42 |
| Rock outcrop--- | Not rated | | Not rated | | Not rated | | Not rated | | Not rated | |
| Moko----- | Very limited ~hard bedrock <20" (very limited) ~slope (very limited) ~large stones (limited) | 1.00 1.00 0.82 | Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~large stones (limited) | 1.00 1.00 0.82 | Very limited ~hard bedrock <20" (very limited) ~slope (very limited) ~large stones (limited) | 1.00 1.00 0.82 | Very limited ~hard bedrock <20" (very limited) ~slope (very limited) ~large stones (limited) | 1.00 1.00 0.82 | Very limited ~large stones >30% (very limited) ~slope (very limited) ~shallow to bedrock (very limited) | 1.00 1.00 1.00 |
| 50C: Nixa----- | Limited ~wetness (limited) | 0.79 | Very limited ~wetness (very limited) | 1.00 | Limited ~slope (limited) ~wetness (moderately limited) | 0.68 0.45 | Moderately limited ~wetness (moderately limited) | 0.45 | Very limited ~small stones (very limited) ~droughty (limited) ~wetness (moderately limited) | 1.00 0.90 0.45 |

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|--|----------------------|--|----------------------|--|----------------------|--|----------------------|---|----------------------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 51B: Tonti----- | Moderately limited ~wetness (moderately limited) | 0.59 | Very limited ~wetness (very limited) | 1.00 | Slightly limited ~wetness (slightly limited) ~slope (slightly limited) | 0.28 0.15 | Slightly limited ~wetness (slightly limited) | 0.28 | Slightly limited ~wetness (slightly limited) | 0.28 |
| Scholten----- | Moderately limited ~wetness (moderately limited) | 0.59 | Very limited ~wetness (very limited) | 1.00 | Moderately limited ~slope (moderately limited) ~wetness (slightly limited) | 0.45 0.28 | Slightly limited ~wetness (slightly limited) | 0.28 | Limited ~droughty (limited) ~small stones (limited) ~wetness (slightly limited) | 0.88 0.64 0.28 |
| 54: Dunning----- | Very limited ~wetness (very limited) ~flooding (very limited) ~shrink-swell (moderately limited) | 1.00 1.00 0.45 | Very limited ~flooding (very limited) ~wetness (very limited) ~shrink-swell (moderately limited) | 1.00 1.00 0.39 | Very limited ~flooding (very limited) ~wetness (very limited) ~shrink-swell (moderately limited) | 1.00 1.00 0.45 | Very limited ~low strength (very limited) ~wetness (very limited) ~flooding (very limited) | 1.00 1.00 1.00 | Very limited ~wetness (very limited) ~flooding (very limited) | 1.00 1.00 |
| 55: Elk----- | Very limited ~flooding (very limited) | 1.00 | Very limited ~flooding (very limited) | 1.00 | Very limited ~flooding (very limited) | 1.00 | Very limited ~flooding (very limited) ~low strength (very limited) | 1.00 1.00 | Moderately limited ~flooding (moderately limited) | 0.60 |
| Huntington----- | Very limited ~flooding (very limited) | 1.00 | Very limited ~flooding (very limited) | 1.00 | Very limited ~flooding (very limited) | 1.00 | Very limited ~flooding (very limited) ~low strength (slightly limited) | 1.00 0.22 | Very limited ~flooding (very limited) | 1.00 |

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|--------------------------|--|----------------------|--|----------------------|--|----------------------|--|----------------------|--|----------------------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 61B: Hoberg----- | Moderately limited ~wetness (moderately limited) | 0.59 | Very limited ~wetness (very limited) | 1.00 | Slightly limited ~wetness (slightly limited) ~slope (slightly limited) | 0.28 0.15 | Very limited ~low strength (very limited) ~wetness (slightly limited) | 1.00 0.28 | Slightly limited ~wetness (slightly limited) | 0.28 |
| 76: Racoon----- | Very limited ~wetness (very limited) ~ponded (very limited) ~flooding (very limited) | 1.00 1.00 1.00 | Very limited ~ponded (very limited) ~flooding (very limited) ~wetness (very limited) | 1.00 1.00 1.00 | Very limited ~ponded (wetness) (very limited) ~flooding (very limited) ~wetness (very limited) | 1.00 1.00 1.00 | Very limited ~ponded (wetness) (very limited) ~wetness (very limited) ~flooding (very limited) | 1.00 1.00 1.00 | Very limited ~wetness (very limited) ~ponded (wetness) (very limited) ~flooding (moderately limited) | 1.00 1.00 0.60 |
| 81B: Tonti----- | Moderately limited ~wetness (moderately limited) | 0.59 | Very limited ~wetness (very limited) | 1.00 | Slightly limited ~wetness (slightly limited) | 0.28 | Very limited ~low strength (very limited) ~wetness (slightly limited) | 1.00 0.28 | Slightly limited ~wetness (slightly limited) | 0.28 |
| 82B: Rock outcrop--- | Not rated | | Not rated | | Not rated | | Not rated | | Not rated | |
| Udorthents----- | Not Rated | | Not Rated | | Not Rated | | Not Rated | | Not Rated | |
| | Not Rated | | Not Rated | | | | Not Rated | | Not Rated Not Rated | |

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|--|-------|--|-------|--|-------|--|-------|--|-------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 83F: | | | | | | | | | | |
| Moko----- | Very limited ~hard bedrock <20" (very limited) | 1.00 | Not Rated Not Rated | | Very limited ~hard bedrock <20" (very limited) | 1.00 | Not Rated Not Rated | | Very limited ~large stones >30% (very limited) | 1.00 |
| | ~slope (very limited) | 1.00 | ~hard bedrock <40" (very limited) | 1.00 | ~slope (very limited) | 1.00 | ~hard bedrock <20" (very limited) | 1.00 | ~shallow to bedrock (very limited) | 1.00 |
| | ~large stones (limited) | 0.87 | ~slope (very limited) | 1.00 | ~large stones (limited) | 0.87 | ~slope (very limited) | 1.00 | ~droughty (very limited) | 1.00 |
| Rock outcrop--- | Not rated | | Not rated | | Not rated | | Not rated | | Not rated | |
| 83G: | | | | | | | | | | |
| Rock outcrop--- | Not rated | | Not rated | | Not rated | | Not rated | | Not rated | |
| Moko----- | Very limited ~hard bedrock <20" (very limited) | 1.00 | Very limited ~hard bedrock <40" (very limited) | 1.00 | Very limited ~hard bedrock <20" (very limited) | 1.00 | Very limited ~hard bedrock <20" (very limited) | 1.00 | Very limited ~large stones >30% (very limited) | 1.00 |
| | ~slope (very limited) | 1.00 | ~slope (very limited) | 1.00 | ~slope (very limited) | 1.00 | ~slope (very limited) | 1.00 | ~slope (very limited) | 1.00 |
| | ~large stones (limited) | 0.83 | ~large stones (limited) | 0.83 | ~large stones (limited) | 0.83 | ~large stones (limited) | 0.83 | ~shallow to bedrock (very limited) | 1.00 |
| 84D: | | | | | | | | | | |
| Bardley----- | Moderately limited ~slope (moderately limited) | 0.60 | Very limited ~hard bedrock <40" (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~low strength (very limited) | 1.00 | Very limited ~small stones (very limited) | 1.00 |
| | ~shrink-swell (moderately limited) | 0.45 | ~slope (moderately limited) | 0.60 | ~shrink-swell (moderately limited) | 0.45 | ~shrink-swell (moderately limited) | 0.45 | ~slope (slightly limited) | 0.16 |
| | ~depth to bedrock (slightly limited) | 0.12 | ~shrink-swell (moderately limited) | 0.45 | ~depth to bedrock (slightly limited) | 0.12 | ~slope (slightly limited) | 0.16 | ~depth to bedrock (slightly limited) | 0.06 |
| Moko----- | Very limited ~hard bedrock <20" (very limited) | 1.00 | Not Rated Not Rated | | Very limited ~hard bedrock <20" (very limited) | 1.00 | Not Rated Not Rated | | Very limited ~large stones >30% (very limited) | 1.00 |
| | ~large stones (limited) | 0.87 | ~hard bedrock <40" (very limited) | 1.00 | ~slope (very limited) | 1.00 | ~hard bedrock <20" (very limited) | 1.00 | ~shallow to bedrock (very limited) | 1.00 |
| | ~slope (moderately limited) | 0.60 | ~large stones (limited) | 0.87 | ~large stones (limited) | 0.87 | ~large stones (limited) | 0.87 | ~droughty (very limited) | 1.00 |

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|--------------------------------------|-------|------------------------------------|-------|--------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 24D: (cont) | | | | | | | | | | |
| Rock outcrop--- | Not rated | | Not rated | | Not rated | | Not rated | | Not rated | |
| 85D: | | | | | | | | | | |
| Moko----- | Very limited | | Not Rated | | Very limited | | Not Rated | | Very limited | |
| | ~hard bedrock <20" (very limited) | 1.00 | Not Rated | | ~hard bedrock <20" (very limited) | 1.00 | Not Rated | | ~large stones >30% (very limited) | 1.00 |
| | ~large stones (limited) | 0.87 | ~hard bedrock <40" (very limited) | 1.00 | ~slope (very limited) | 1.00 | ~hard bedrock <20" (very limited) | 1.00 | ~shallow to bedrock (very limited) | 1.00 |
| | ~slope (moderately limited) | 0.60 | ~large stones (limited) | 0.87 | ~large stones (limited) | 0.87 | ~large stones (limited) | 0.87 | ~droughty (very limited) | 1.00 |
| Rock outcrop--- | Not rated | | Not rated | | Not rated | | Not rated | | Not rated | |
| Blueye----- | Very limited | | Very limited | | Very limited | | Very limited | | Moderately limited | |
| | ~shrink-swell (very limited) | 1.00 | ~hard bedrock <40" (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~low strength (very limited) | 1.00 | ~small stones (moderately limited) | 0.33 |
| | ~slope (moderately limited) | 0.60 | ~shrink-swell (limited) | 0.91 | ~slope (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~slope (slightly limited) | 0.16 |
| | ~depth to bedrock (slightly limited) | 0.07 | ~slope (moderately limited) | 0.60 | ~depth to bedrock (slightly limited) | 0.07 | ~slope (slightly limited) | 0.16 | ~droughty (slightly limited) | 0.12 |
| 85F: | | | | | | | | | | |
| Moko----- | Very limited | | Very limited | | Very limited | | Very limited | | Very limited | |
| | ~hard bedrock <20" (very limited) | 1.00 | ~hard bedrock <40" (very limited) | 1.00 | ~hard bedrock <20" (very limited) | 1.00 | ~hard bedrock <20" (very limited) | 1.00 | ~large stones >30% (very limited) | 1.00 |
| | ~slope (very limited) | 1.00 | ~slope (very limited) | 1.00 | ~slope (very limited) | 1.00 | ~slope (very limited) | 1.00 | ~shallow to bedrock (very limited) | 1.00 |
| | ~large stones (limited) | 0.82 | ~large stones (limited) | 0.82 | ~large stones (limited) | 0.82 | ~large stones (limited) | 0.82 | ~slope (very limited) | 1.00 |

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Building Site Development

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|--|-------|--|-------|---|-------|--|-------|---|-------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 85F: (cont) | | | | | | | | | | |
| Blueye----- | Very limited ~shrink-swell (very limited) | 1.00 | Very limited ~hard bedrock <40" (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~low strength (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 |
| | ~slope (very limited) | 1.00 | ~slope (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~droughty (moderately limited) | 0.46 |
| | ~depth to bedrock (slightly limited) | 0.07 | ~shrink-swell (very limited) | 1.00 | ~depth to bedrock (slightly limited) | 0.07 | ~slope (very limited) | 1.00 | ~small stones (moderately limited) | 0.33 |
| Rock outcrop--- | Not rated | | Not rated | | Not rated | | Not rated | | Not rated | |
| 86D: | | | | | | | | | | |
| Mano----- | Moderately limited ~slope (moderately limited) | 0.60 | Limited ~wetness (limited) | 0.90 | Very limited ~slope (very limited) | 1.00 | Slightly limited ~slope (slightly limited) | 0.16 | Limited ~small stones (limited) | 0.73 |
| | ~wetness (slightly limited) | 0.22 | ~slope (moderately limited) | 0.60 | | | | | ~large stones (moderately limited) | 0.45 |
| | | | ~shrink-swell (moderately limited) | 0.50 | | | | | ~slope (slightly limited) | 0.16 |
| Gatewood----- | Very limited ~shrink-swell (very limited) | 1.00 | Very limited ~hard bedrock <40" (very limited) | 1.00 | Very limited ~shrink-swell (very limited) | 1.00 | Very limited ~shrink-swell (very limited) | 1.00 | Very limited ~small stones (very limited) | 1.00 |
| | ~slope (moderately limited) | 0.60 | ~shrink-swell (very limited) | 1.00 | ~slope (very limited) | 1.00 | ~low strength (very limited) | 1.00 | ~slope (slightly limited) | 0.16 |
| | ~wetness (moderately limited) | 0.51 | ~wetness (very limited) | 1.00 | ~wetness (slightly limited) | 0.13 | ~slope (slightly limited) | 0.16 | ~wetness (slightly limited) | 0.13 |
| 86F: | | | | | | | | | | |
| Mano----- | Very limited ~slope (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 |
| | ~wetness (slightly limited) | 0.22 | ~wetness (limited) | 0.90 | | | | | ~small stones (very limited) | 1.00 |
| | | | ~shrink-swell (moderately limited) | 0.50 | | | | | ~droughty (limited) | 0.83 |

Barry County, Missouri: Detailed Soil Map Legend

Building Site Development

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|--|-------|--|-------|--|-------|---|-------|---|-------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 86F: (cont) | | | | | | | | | | |
| Ocie----- | Very limited ~shrink-swell (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~low strength (very limited) | 1.00 | Very limited ~small stones (very limited) | 1.00 |
| | ~slope (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~slope (very limited) | 1.00 |
| | ~wetness (slightly limited) | 0.01 | ~wetness (limited) | 0.61 | | | ~slope (very limited) | 1.00 | ~droughty (limited) | 0.85 |
| 87F: | | | | | | | | | | |
| Moko----- | Very limited ~hard bedrock <20" (very limited) | 1.00 | Not Rated Not Rated | | Very limited ~hard bedrock <20" (very limited) | 1.00 | Not Rated Not Rated | | Very limited ~large stones >30% (very limited) | 1.00 |
| | ~slope (very limited) | 1.00 | ~hard bedrock <40" (very limited) | 1.00 | ~slope (very limited) | 1.00 | ~hard bedrock <20" (very limited) | 1.00 | ~shallow to bedrock (very limited) | 1.00 |
| | ~large stones (limited) | 0.85 | ~slope (very limited) | 1.00 | ~large stones (limited) | 0.85 | ~slope (very limited) | 1.00 | ~droughty (very limited) | 1.00 |
| Rock outcrop--- | Not rated | | Not rated | | Not rated | | Not rated | | Not rated | |
| Snead----- | Very limited ~shrink-swell (very limited) | 1.00 | Very limited ~shrink-swell (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~low strength (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 |
| | ~slope (very limited) | 1.00 | ~slope (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~too clayey (moderately limited) | 0.60 |
| | ~wetness (moderately limited) | 0.45 | ~wetness (very limited) | 1.00 | | | ~slope (very limited) | 1.00 | ~depth to bedrock (slightly limited) | 0.03 |
| 88D: | | | | | | | | | | |
| Blueye----- | Very limited ~shrink-swell (very limited) | 1.00 | Very limited ~hard bedrock <40" (very limited) | 1.00 | Very limited ~shrink-swell (very limited) | 1.00 | Very limited ~low strength (very limited) | 1.00 | Moderately limited ~small stones (moderately limited) | 0.33 |
| | ~slope (moderately limited) | 0.60 | ~shrink-swell (very limited) | 1.00 | ~slope (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~droughty (slightly limited) | 0.23 |
| | ~depth to bedrock (slightly limited) | 0.07 | ~slope (moderately limited) | 0.60 | ~depth to bedrock (slightly limited) | 0.07 | ~slope (slightly limited) | 0.16 | ~slope (slightly limited) | 0.16 |

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Building Site Development

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|--|-------|--|-------|--|-------|--|-------|--|-------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 88D: (cont) | | | | | | | | | | |
| Moko----- | Very limited ~hard bedrock <20" (very limited) | 1.00 | Very limited ~hard bedrock <40" (very limited) | 1.00 | Very limited ~hard bedrock <20" (very limited) | 1.00 | Very limited ~hard bedrock <20" (very limited) | 1.00 | Very limited ~large stones >30% (very limited) | 1.00 |
| | ~large stones (limited) | 0.90 | ~large stones (limited) | 0.90 | ~slope (very limited) | 1.00 | ~large stones (limited) | 0.90 | ~shallow to bedrock (very limited) | 1.00 |
| | ~slope (moderately limited) | 0.60 | ~slope (moderately limited) | 0.60 | ~large stones (limited) | 0.90 | ~slope (slightly limited) | 0.16 | ~droughty (very limited) | 1.00 |
| 89D: | | | | | | | | | | |
| Mano----- | Moderately limited ~slope (moderately limited) | 0.45 | Limited ~wetness (limited) | 0.90 | Very limited ~slope (very limited) | 1.00 | Slightly limited ~slope (slightly limited) | 0.04 | Limited ~small stones (limited) | 0.73 |
| | ~wetness (slightly limited) | 0.22 | ~shrink-swell (moderately limited) | 0.50 | | | | | ~large stones (moderately limited) | 0.45 |
| | | | ~slope (moderately limited) | 0.45 | | | | | ~slope (slightly limited) | 0.04 |
| Ocie----- | Very limited ~shrink-swell (very limited) | 1.00 | Very limited ~shrink-swell (very limited) | 1.00 | Very limited ~shrink-swell (very limited) | 1.00 | Very limited ~low strength (very limited) | 1.00 | Very limited ~small stones (limited) | 1.00 |
| | ~slope (moderately limited) | 0.45 | ~depth to bedrock (limited) | 0.64 | ~slope (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~slope (slightly limited) | 0.04 |
| | ~wetness (slightly limited) | 0.01 | ~wetness (limited) | 0.61 | | | ~slope (slightly limited) | 0.04 | ~droughty (slightly limited) | 0.00 |
| 89F: | | | | | | | | | | |
| Mano----- | Very limited ~shrink-swell (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~low strength (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 |
| | ~slope (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~small stones (limited) | 0.73 |
| | ~wetness (slightly limited) | 0.22 | ~wetness (limited) | 0.90 | | | ~slope (very limited) | 1.00 | ~large stones (moderately limited) | 0.45 |

Barry County, Missouri: Detailed Soil Map Legend

Building Site Development

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|--|-------|---|-------|--|-------|--|-------|---|-------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 89F: (cont) | | | | | | | | | | |
| Ocie----- | Very limited ~shrink-swell (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 | Very limited ~low strength (very limited) | 1.00 | Very limited ~slope (very limited) | 1.00 |
| | ~slope (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~shrink-swell (very limited) | 1.00 | ~small stones (limited) | 1.00 |
| | ~wetness (slightly limited) | 0.01 | ~depth to bedrock (limited) | 0.90 | | | ~slope (very limited) | 1.00 | ~droughty (slightly limited) | 0.00 |
| 91B: | | | | | | | | | | |
| Viraton----- | Moderately limited ~wetness (moderately limited) | 0.59 | Very limited ~wetness (very limited) | 1.00 | Slightly limited ~wetness (slightly limited) | 0.28 | Slightly limited ~wetness (slightly limited) | 0.28 | Limited ~droughty (limited) | 0.63 |
| | | | | | ~slope (slightly limited) | 0.15 | | | ~wetness (slightly limited) | 0.28 |
| 92A: | | | | | | | | | | |
| Secesh----- | Very limited ~flooding (very limited) | 1.00 | Very limited ~flooding (very limited) | 1.00 | Very limited ~flooding (very limited) | 1.00 | Limited ~flooding (rare) (limited) | 0.90 | Not limited | |
| 93B: | | | | | | | | | | |
| Waben----- | Not limited | | Not limited | | Slightly limited ~slope (slightly limited) | 0.15 | Not limited | | Very limited ~small stones (limited) | 1.00 |
| Cedargap----- | Very limited ~flooding (very limited) | 1.00 | Very limited ~flooding (very limited) | 1.00 | Very limited ~flooding (very limited) | 1.00 | Very limited ~flooding (very limited) | 1.00 | Very limited ~flooding (very limited) | 1.00 |
| | | | | | | | | | ~small stones (very limited) | 1.00 |
| | | | | | | | | | ~droughty (very limited) | 1.00 |

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| Map symbol and soil name | Dwellings without basements | | Dwellings with basements | | Small commercial buildings | | Local roads and streets | | Lawns and landscaping | |
|--------------------------|--|------------------|--|------------------|--|------------------|--|------------------|---|------------------------------|
| | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 94B: | | | | | | | | | | |
| Hercules----- | Very limited ~flooding (very limited) ~shrink-swell (moderately limited) | 1.00 0.45 | Very limited ~flooding (very limited) ~shrink-swell (moderately limited) | 1.00 0.43 | Very limited ~flooding (very limited) ~shrink-swell (moderately limited) | 1.00 0.45 | Very limited ~flooding (very limited) ~shrink-swell (moderately limited) | 1.00 0.45 | Very limited ~small stones (very limited) ~flooding (moderately limited) ~droughty (moderately limited) | 1.00 0.60 0.31 |
| 96: | | | | | | | | | | |
| Pits----- | Not rated | | Not rated | | Not rated | | Not rated | | Not rated | |
| Dumps----- | | | | | | | | | | |
| M-W: | | | | | | | | | | |
| Water----- | Not rated | | Not rated | | Not rated | | Not rated | | Not rated | |
| W: | | | | | | | | | | |
| Water----- | Not rated | | Not rated | | Not rated | | Not rated | | Not rated | |